

AIMABLE MOTION-ACTIVATED LIGHTING FIXTURE WITH ANGULATED FIELD

ABSTRACT OF THE DISCLOSURE

A motion-activated light fixture having an aimable motion detector with a zonal
5 configuration providing improved monitoring of the region behind the motion detector. In one
embodiment the motion detector defines a first plurality of generally forward-looking
detection zones for monitoring the region in front of and to the sides of the motion detector,
the forward-looking detection zones having a side-to-side coverage angle of at most 180
degrees and having forward zones for monitoring the far region in front of the motion
10 detector. A second plurality of detection zones for monitoring the region behind the motion
detector forms a zonal pattern angulated with respect to the zones of the first plurality
monitoring the far region. At least some of the detection zones of the second plurality extend
generally in the backward direction although in some embodiments the motion detector head
must be tilted down through a pre-established offset angle before the angulated zonal pattern
15 begins to look backward. The motion detector may also have other detection zones forming
zonal patterns monitoring intermediate regions. The backward looking detection zones are
defined so as to look sufficiently downward that the amount they are shifted to angle upwards
as the motion detector housing is angled downward is limited to a useful range so that
individual detection zones are not rendered useless or detrimental by being aimed too high.
20 Configurations of zonal patterns are provided for improved monitoring of the region behind
the motion detector without compromising the ability to aim the motion detector's forward-
looking far zones.